



PTO/SB/21 (09-04)

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/705,391
Filing Date	November 10, 2003
First Named Inventor	HUGHES, JOY VANNELIA
Art Unit	3732
Examiner Name	MANAHAN, TODD
Attorney Docket Number	018563-005910US

**ENCLOSURES (Check all that apply)**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Supplemental Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>Return Postcard<br>PTO/SB/08A & PTO/SB/08B<br>149 Reference Copies |
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	James M. Heslin		
Date	April 19, 2006	Reg. No.	29,541

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PATENT  
Attorney Docket No.: 018563-005910US  
Client Reference No.: AT00030.2

On 4/20/06

TOWNSEND and TOWNSEND and CREW LLP

By: [Signature]

Tiffany Wu

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

JOY VANNELIA HUGHES et al.

Application No.: 10/705,391

Filed: November 10, 2003

For: SYSTEM AND METHOD FOR  
SEPARATING THREE-DIMENSIONAL  
MODELS

Customer No.: 46718

Confirmation No.: 4356

Examiner: MANAHAN, TODD

Art Unit: 3732

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER  
37 CFR §1.97 and §1.98

Mail Stop Amendment  
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P.O. Box 1450  
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Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

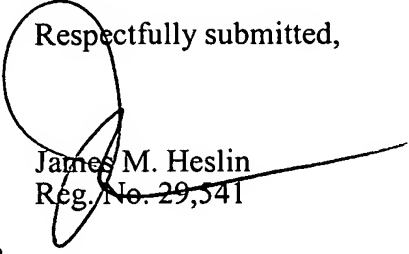
As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

  
James M. Heslin  
Reg. No. 29,541

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Sheet <b>1</b> of <b>13</b>			<b>Complete if Known</b>	
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			Examiner Name	MANAHAN, TODD
			Attorney Docket Number	018563-005910US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	1	AU	517102		07-09-1981	Hito Suyehiro		<input type="checkbox"/>
	2	AU	3031677		05-10-1979	Hito Suyehiro		<input type="checkbox"/>
	3	AU	5598894		06-08-1994	Ormco Corp		<input type="checkbox"/>
	4	CA	1121955		04-20-1982	Suyehiro Hito		<input type="checkbox"/>
	5	DE	2749802		05-11-1978	Suyehiro Hito		<input type="checkbox"/>
	6	DE	69327661		07-20-2000	Ormco Corp		<input type="checkbox"/>
	7	EP	0091876		10-19-1983	Duret		<input type="checkbox"/>
	8	EP	0299490		01-18-1989	Steinbichler		<input type="checkbox"/>
	9	EP	0376873		07-04-1990	Shafir		<input type="checkbox"/>
	10	EP	0490848		06-17-1992	Nobelpharma AB.		<input type="checkbox"/>
	11	EP	0541500		05-12-1993	Nobelpharma AB		<input type="checkbox"/>
	12	EP	0667753		08-23-1995	Ormco Corp		<input type="checkbox"/>
	13	EP	0774933		05-28-1997	Sandvik AB		<input type="checkbox"/>
	14	EP	0731673		09-18-1996	Nobel Biocare AB		<input type="checkbox"/>
	15	ES	463897		01-01-1980	Hito Suyehiro		<input type="checkbox"/>
	16	FR	2369828		06-02-1978	Hito Suyehiro		<input type="checkbox"/>
	17	FR	2652256		03-29-1991	Jourda		<input type="checkbox"/>
	18	GB	1550777		08-22-1979	Hito Suyehiro		<input type="checkbox"/>
	19	JP	04-028359		01-30-1992	Mitsubishi Petrochemical Co		<input checked="" type="checkbox"/>
	20	JP	53-058191		05-25-1978	Yoshii		<input type="checkbox"/>
	21	JP	08-508174		09-03-1996	Ormco Corp		<input type="checkbox"/>
	22	WO	90/08512		08-09-1990	Dolphin Imaging System		<input type="checkbox"/>
	23	WO	91/04713		04-18-1991	Jourda et al.		<input type="checkbox"/>

Examiner Signature		Date Considered	
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Sheet	2	of	13	Attorney Docket Number	018563-005910US

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	24	WO	94/10935		05-26-1994	Ormco Corp		<input type="checkbox"/>
	25	WO	98/32394		07-30-1998	Hultgren Bruce Willard		<input type="checkbox"/>
	26	WO	98/44865		10-15-1998	Nobel Biocare AB		<input type="checkbox"/>

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
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Sheet	3	of	13	Attorney Docket Number	018563-005910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	27	ALEXANDER et al., The DigiGraph Work Station Part 2, Clinical Management, <i>JCO</i> (July 1990), pp. 402-407.	<input type="checkbox"/>
	28	ALTSCHULER et al, Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix, <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , Vol. 182 (1979), p. 187-191.	<input type="checkbox"/>
	29	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," IADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriot, <i>Journal of Dental Research</i> , Vol. 58, January, 1979, Special Issue A, p. 221.	<input type="checkbox"/>
	30	ALTSCHULER et al., Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces, <i>Optical Engineering</i> , Vol. 20, No. 6, (1981), pp. 953-961.	<input type="checkbox"/>
	31	ALTSCHULER, 3D Mapping of Maxillo-Facial Prosthesis, AADR Abstract #607, 1980, 2 pages total.	<input type="checkbox"/>
	32	AMERICAN ASSOCIATION FOR DENTAL RESEARCH, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	<input type="checkbox"/>
	33	ANDERSSON et al., Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion, <i>Acta Odontological Scandinavia</i> , Vol. 47 (1989), pp. 279-286.	<input type="checkbox"/>
	34	ANDREWS, <i>The Six Keys to Optimal Occlusion Straight Wire</i> , Chapter 3, pp 13-24.	<input type="checkbox"/>
	35	BAUMRIND et al., A Stereophotogrammetric System for the Detection of Prosthesis Loosening in Total Hip Arthroplasty, NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978, <i>SPIE</i> , Vol. 166, pp. 112-123.	<input type="checkbox"/>
	36	BAUMRIND et al., Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.	<input type="checkbox"/>
	37	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. pp.142-166.	<input type="checkbox"/>

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	38	BAUMRIND, Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives, <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 223-232.	<input type="checkbox"/>	
	39	BEGOLE et al., A Computer System for the Analysis of Dental Casts, <i>The Angle Orthodontist</i> , Vol. 51 No. 3 (July 1981), pp. 253-259.	<input type="checkbox"/>	
	40	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report, Paper presented at International Association for Dental Research 66th General Session, March 9-13, 1988, Montreal, Canada. The abstract is published in <i>J Dental Res Special Issue</i> Vol. 67, p. 169.	<input type="checkbox"/>	
	41	BHATIA et al, A Computer-Aided Design for Orthognathic Surgery, <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.	<input type="checkbox"/>	
	42	BIGGERSTAFF et al., Computerized Analysis of Occlusion in the Postcanine Dentition, <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	<input type="checkbox"/>	
	43	BIGGERSTAFF, Computerized Diagnostic Setups and Simulations, <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	<input type="checkbox"/>	
	44	BIOSTAR OPEATION & TRAINING MANUAL. Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York. 14150-5890. 20 pages total	<input type="checkbox"/>	
	45	BOYD et al., Three Dimensional Diagnosis and Orthodontic Treatment of Complex Malocclusions Wlith the Invisalign Appliance, <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), p. 274-293.	<input type="checkbox"/>	
	46	BRANDESTINI et al., Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation, <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, p. 208	<input type="checkbox"/>	
	47	BROOK et al., An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, <i>J Dent Res.</i> , Vol. 65, No. 3, March 1986, pp. 428-431.	<input type="checkbox"/>	
	48	BURSTONE (interview), Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 1), <i>Journal of Clinical Orthodontics</i> , (1979 Jul), Vol. 13. No. 7, pp. 442-53.	<input type="checkbox"/>	

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	49	BURSTONE (interview), Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 2), <i>Journal of Clinical Orthodontics</i> , (1979 Aug), Vol. 13, No. 8, pp. 539-51.	<input type="checkbox"/>	
	50	BURSTONE et al., Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination, <i>Am. Journal of Orthodontics</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	<input type="checkbox"/>	
	51	CARDINAL INDUSTRIAL FINISHES, Powder Coatings information posted at <a href="http://www.cardinalpaint.com">http://www.cardinalpaint.com</a> on Aug. 25, 2000, 2 pages total.	<input type="checkbox"/>	
	52	CARNAGHAN et al., An Alternative to Holograms for the Portrayal of Human Teeth, <i>Fourth International Conference Holographic Systems, Components and Applications</i> , Sep 13-15, 1993, Issue 379, pp. 228-231.		
	53	CHACONAS et al., The DigiGraph Work Station, Part 1, Basic Concepts, <i>JCO</i> (June 1990), pp. 360-367.	<input type="checkbox"/>	
	54	CHAFETZ et al., Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation, <i>Clinical Orthopedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.	<input type="checkbox"/>	
	55	CRAWFORD, CAD/CAM in the Dental Office: Does It Work? <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	<input type="checkbox"/>	
	56	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operatory, <i>Canadian Dental Journal</i> , Vol. 54(9), (1988), pp. 661-666.	<input type="checkbox"/>	
	57	CROOKS, CAD/CAM Comes to USC, <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.	<input type="checkbox"/>	
	58	CURRY et al., Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific, <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec 2001), pp. 258-265.	<input type="checkbox"/>	
	59	CUTTING et.al., Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models, <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	<input type="checkbox"/>	

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	60	DCS Dental AG, The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges, DSC Production AG, Jan. 1992, pp. 1-7.	<input type="checkbox"/>
	61	DEFRANCO et al., Three-Dimensional Large Displacement Analysis of Orthodontic Appliances, <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.	<input type="checkbox"/>
	62	DENTAL INSTITUTE UNIVERSITY OF ZURICH SWITZERLAND, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 2 pages total.	<input type="checkbox"/>
	63	DENTRAC CORPORATION, Dentrac document, pp. 4-13.	<input type="checkbox"/>
	64	DENT-X posted at <a href="http://www.dent-x.com/DentSim.htm">http://www.dent-x.com/DentSim.htm</a> 09/24/98, 6 pages total.	<input type="checkbox"/>
	65	DOYLE, Digital Dentistry, <i>Computer Graphics World</i> , Oct. 2000 pp. 50-52, 54.	<input type="checkbox"/>
	66	DURET et al, CAD-CAM in Dentistry, <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	<input type="checkbox"/>
	67	DURET et al., CAD/CAM Imaging in Dentistry, <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	<input type="checkbox"/>
	68	DURET, The Dental CAD/CAM, General Description of the Project, <i>Hennson International Product Brochure</i> , Jan. 1986., 18 pages total.	<input type="checkbox"/>
	69	DURET, Vers Une Prothese Informatisee, (English translation also attached), <i>Tonus</i> , Vol. 75, (Nov. 15, 1985), pp. 55-57.	<input type="checkbox"/>
	70	ECONOMIDES, The Microcomputer in the Orthodontic Office, <i>JCO</i> , (Nov. 1979), pp. 767-772.	<input type="checkbox"/>
	71	ELSASSER, Some Observations on the History and Uses of the Kesling Positioner, <i>Am. J. Orthod.</i> (1950) 36:368-374.	<input type="checkbox"/>

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	72	FABER et al., Computerized interactive orthodontic treatment planning, Am. J. Orthod., Vol. 73, No. 1 (Jan. 1978), pp. 3646.	<input type="checkbox"/>	
	73	FELTON et al. A Computerized Analysis of the Shape and Stability of Mandibular Arch Form, Am. Journal of Orthodontics and Dentofacial Orthopedics, Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	<input type="checkbox"/>	
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	82	HOJJATIE et al., Three-Dimensional Finite Element Analysis of Glass-Ceramic Dental Crowns, J Biomech. (1990) Vol. 23, No. 11, pp.1157-1166.	<input type="checkbox"/>	
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	83	HUCKINS, CAD-CAM Generated Mandibular Model Prototype from MRI Data, AAOMS 1999, p. 96.	<input type="checkbox"/>	
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	104	PINKHAM, Foolish' Concept Propels Technology, <i>Dentist</i> , Jan./Feb. 1989, 3 pages total.	<input type="checkbox"/>	
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	106	PONITZ, Invisible Retainers, <i>Am J. Orthod.</i> , Vol 59, No. 3 (March 1971) pp. 266-272	<input type="checkbox"/>	
	107	PROCERA RESEARCH PROJECTS, PROCERA Research Projects 1993 — Abstract Collection, 1993, pp. 3-28.	<input type="checkbox"/>	
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	121	RICHMOND, Recording The Dental Cast In Three Dimensions, <i>Am. J. Orthod. Dentofac. Orthop.</i> , Vol. 92, No. 3, (Sept. 1987), pp.199-206.	<input type="checkbox"/>	
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	130	U.S. Department of Commerce, National Technical Information Service, Automated Crown Replication Using Solid Photography SM, Solid Photography Inc. Melville NY, October 1977, 20 pages total.	<input type="checkbox"/>	
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	133	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom, <i>J Dent Res</i> , July-August 1972, p. 1100.	<input type="checkbox"/>	
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	143	YAMAMOTO et al., Optical Measurement of Dental Cast Profile and Application to Analysis of Three-Dimensional Tooth Movement in Orthodontics, <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.	<input type="checkbox"/>	
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	145	YAMANY et al., A System for Human Jaw Modeling Using Intra-Oral Images, A System for Human Jaw Modeling Using Intra-Oral Images. In IEEE-EMBS, Volume 2, (Oct 29 -Nov 1998) pp. 563--566, 1998.		
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